
न्यूरोसर्जरी — पेरीओस्टील एलीवेटर

(पहला पुनरीक्षण)

Neurosurgery — Periosteal Elevator

(First Revision)

ICS 11.040.30

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FOREWORD

This standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Neurosurgery Instruments, Implants and Accessories Sectional Committee had been approval by the Medical Equipment and Hospital Planning Division Council.

This standard supersedes IS 9041 : 1979 'Specification for elevator, periosteal'. This version makes minor changes in references to incorporate the updated designation of steel and the currently used methods of test for hardness and corrosion resistance. After publication of this standard, IS 9041 : 1979 stands withdrawn.

The composition of the Committee responsible for formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

Indian Standard

NEUROSURGERY — PERIOSTEAL ELEVATOR

(*First Revision*)

1 SCOPE

This standard specifies dimensional and other requirements for periosteal elevator used in neurosurgery.

2 REFERENCES

The standard given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of these standards.

<i>IS No.</i>	<i>Title</i>
IS 6603 : 2001	Stainless steel bars and flats — Specification (<i>first revision</i>)
IS 7531 : 1990	Methods for testing of corrosion resistance of stainless steel surgical instruments (<i>first revision</i>)

3 SHAPE AND DIMENSIONS

Shall be as shown in Fig. 1.

4 MATERIAL

The elevator shall be made of stainless steel conforming to Designation X40Cr13 of IS 6603.

5 WORKMANSHIP AND FINISH

5.1 The elevator shall be forged in one piece. It shall be well balanced and symmetrical on its central axis.

5.2 All edges shall be suitably rounded off. The working end shall be blunt and shaped as shown in Fig. 1.

5.3 The elevator shall be free from cracks, pits, seams, burrs and other surface defects.

5.4 The elevator shall be finished smooth, polished

bright and passivated.

6 HEAT TREATMENT

The elevator shall be uniformly hardened and tempered. The observed hardness shall be from 540 HV to 600 HV.

7 TESTS

7.1 Flexibility Test

Clamp the elevator horizontally in a vice at the middle of the shaft keeping the working tip upwards. Apply a force of 40 N gradually at a distance of 15 mm from the tip of the working end, for a period of 5 minutes. On completion of the test, the elevator shall show no sign of permanent set or damage.

7.2 Corrosion Resistance

The elevator shall show no sign of corrosion when tested in accordance with IS 7531.

8 MARKING

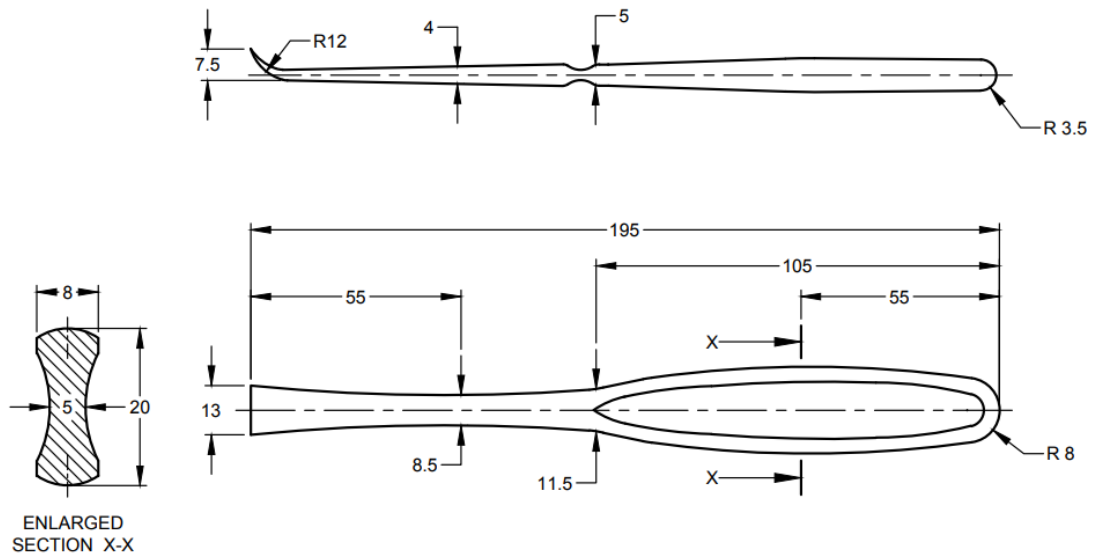
8.1 The elevator shall be legibly and indelibly marked with the manufacturer's name, initials or registered trade-mark and the word 'stainless'.

8.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

9 PACKING

The elevator shall be wrapped in moisture-proof paper and then packed in a polyethylene bag or in a cardboard carton. The elevator may also be packed as agreed to between the purchaser and the supplier. Only biodegradable material shall be used for packaging.



ALL DIMENSIONS IN MILLIMETRES.

FIG. 1 PERIOSTEAL ELEVATOR

Tolerance of ± 2.5 percent is permissible on all dimensions.

ANNEX A*(Foreword)***COMMITTEE COMPOSITION**

Neurosurgery Instruments Implants and Accessories Sectional Committee, MHD 07

<i>Organization(s)</i>	<i>Representative(s)</i>
G B Pant Hospital, New Delhi	PROF DALJIT SINGH (<i>Chairperson</i>)
All India Institute of Medical Sciences, New Delhi	DR S. S. KALE DR P SARAT CHANDRA (<i>Alternate</i>)
B. Braun Medical India Private Limited, New Delhi	DR ANMOL KUMAR RAY MS GAYATRI GARG (<i>Alternate I</i>) SHRI ARIHANT JAIN (<i>Alternate II</i>)
Boston Scientific India Private Limited, Gurugram	SHRI DEV CHOPRA SHRI PRASHANTH PRABHAKAR (<i>Alternate</i>)
Central Drugs Standard Control Organization, New Delhi	DR RAVI KANT SHARMA
Christian Medical College, Vellore	DR SARVPREET SINGH GREWAL
Defence Bio-Engineering and Electromedical Laboratory, Ministry of Defence, Bengaluru	DR JAYANT DANIEL DR G. SRIPATHY (<i>Alternate</i>)
Directorate General Armed Forces Medical Service, New Delhi	AIR CMDE M. S. SRIDHAR DR A ARIVAZHAGAN (<i>Alternate</i>)
Directorate General of Health Services, New Delhi	DR AJAY CHOUDHARY DR K. B. SHANKER (<i>Alternate</i>)
G Surgiwear Limited, Hathoura Bujurg	DR GHANSHYAM DAS AGRAWAL SHRI EHTISHAM AHMED KHAN (<i>Alternate</i>)
HLL Lifecare Limited, Trivandaram	DR ABI SANTHOSH APREM DR JEEVAN DOSS (<i>Alternate</i>)
Indian Institute of Technology Bombay, Mumbai	PROF DIPTI GUPTA
Indian Institute of Technology Hyderabad, Hyderabad	DR ARAVIND KUMAR RENGAN DR AVINASH ERANKI (<i>Alternate I</i>) DR KOUSIK SARATHY S. (<i>Alternate II</i>)
Indian Institute of Technology Kanpur, Kanpur	DR NITIN GUPTA DR D. S. KATTI (<i>Alternate</i>)
Indian Institute of Technology Kharagpur, Kharagpur	DR PRANAB KR DUTTA DR MANJUNATHA M. (<i>Alternate</i>)
Johnson and Johnson Private Limited, Mumbai	SHRI YATEEN SHAH

<i>Organization(s)</i>	<i>Representative(s)</i>
Kalam Institute of Health Technology, Vishakhapatnam	DR JITENDAR SHARMA SHRI DILIP KUMAR CHEKURI (<i>Alternate I</i>) SUSHMITHA CHOWDARY (<i>Alternate II</i>)
King George's Medical University, Lucknow	DR B. K. OJHA DR. ANIL CHANDRA (<i>Alternate</i>)
National Institute of Mental Health and Neurosciences, Bengaluru	DR MALLA BHASKARA RAO
Sir Ganga Ram Hospital, New Delhi	DR SATNAM CHHABRA DR V. S. MADAN (<i>Alternate</i>)
South India Surgical Company Limited(SISCO), Chennai	SHRI ASHOK BAJAJ SHRI BHARAT BHUSHAN (<i>Alternate</i>)
Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram	DR GEORGE C VILANILAM DR KRISHNAKUMAR K (<i>Alternate</i>)
Stryker India Private Limited, Gurugram	SHRI SHIVKUMAR HURDALE
BIS Directorate General	SHRI A. R. UNNIKRISHNAN SCIENTIST 'F'/SENIOR DIRECTOR AND HEAD (MEDICAL EQUIPMENT AND HOSPITAL PLANNING) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary
MS UROOSA WARSI
SCIENTIST 'B'/ASSISTANT DIRECTOR
(MEDICAL EQUIPMENT AND HOSPITAL PLANNING), BIS

Bureau of Indian Standards

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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